

WHAT IS CLAIMED IS:

- 1 1. A vehicle closure hinge comprising:
2 a mount including a pivot axis flange;
3 a pivot link;
4 a pivot coupling said pivot link to said axis flange;
5 a spring comprising a laterally coiled strand extending from a first
6 coil end to a second coil end, said strand having a first end at said first coil end and
7 a second end with a longitudinally extended portion along a longitudinal direction
8 of said coil to a position at said first end, wherein said first and second ends bias
9 said link and said mount at said first coil end.
- 1 2. The invention as defined in claim 1 wherein said
2 longitudinally extended portion is positioned within said coil.
- 3 3. The invention as defined in claim 1 wherein said
4 longitudinally extended portion is coaxial with said coil.
- 1 4. The invention as defined in claim 1 wherein said first strand
2 end and said second strand end terminate at a substantially coplanar position.
- 1 5. The invention as defined in claim 1 wherein said pivot link is
2 a gooseneck arm.
- 1 6. The invention as defined in claim 1 wherein said first and
2 second ends include radially extending arm portions.
- 1 7. The invention as defined in claim 1 wherein at least one of
2 said arm portions has a terminal portion pivotally secured to one of said pivot link
3 and said mount.
- 1 8. The invention as defined in claim 7 wherein both said first and
2 second ends include radially extending arm portions having terminal portions, a first

3 of said terminal portions being pivotally secured about a first spring arm axis to said
4 pivot link, and a second of said terminal portions being pivotally secured about a
5 second spring arm axis to said mount.

1 9. The invention as defined in claim 8 wherein said first spring
2 arm axis and said second spring arm axis are spaced from and parallel to the axis
3 of said pivot axis flange.

1 10. A method for spring biasing a vehicle closure hinge:
2 mounting a pivot axis flange on a compartment bordering structure;
3 aligning a pivot link carried by the vehicle closure adjacent said pivot
4 axis flange;
5 coupling said pivot link to said pivot axis flange;
6 biasing said pivot link about said with a laterally coiled strand spring
7 extending from a first coil and to a second coil end, said strand having a first strand
8 end at said first coil end, and a second, strand end portion extending along a
9 longitudinal direction of said coil to a position at said first coil end, wherein said
10 biasing acts about said pivot axis at said first coil end.

1 11. The invention as defined in claim 10 wherein said biasing
2 includes aligning said second strand end portion through said coil.

1 12. A vehicle closure hinge comprising:
2 a mount including a pivot axis flange;
3 a pivot link;
4 a pivot coupling said pivot link to said pivot axis flange;
5 a spring comprising a laterally coil strand extending from a first
6 coiled end to a second coil end, said strand having a first strand end coupled to said
7 pivot link and a second strand end coupled to said mount;
8 wherein said pivot link is a gooseneck bar.

1 13. The invention as defined in claim 12 wherein said coiled
2 strand is coaxial to said pivot axis.

1 14. The invention as defined in claim 12 wherein said coiled
2 strand is wrapped about an axis parallel to but spaced from said pivot axis.

1 15. The invention as defined in claim 12 wherein said first strand
2 end is pivotally coupled to said pivot link.

1 16. The invention as defined in claim 15 wherein said pivotally
2 coupled first strand end pivotally engages a lever carried by said pivot link.

1 17. The invention as defined in claim 16 wherein said lever
2 includes a second pivot coupling to said pivot link.

1 18. The invention as defined in claim 12 wherein said closure
2 hinge includes one of said first strand end and second strand end being coupled to
3 said pivot link at a position spaced from said pivot axis.

1 19. The invention as defined in claim 18 wherein said second
2 strand is coupled to said mount at a position spaced from said pivot axis.